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Andreas Schaad, Jonathan Moffett, Jeremy Jacob
May 2001   **Proceedings of the sixth ACM symposium on Access control models and technologies**
Full text available: ⬛ pdf(201.08 KB)   Additional Information: full citation, abstract, references, citings, index terms

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Keywords: control principles, dual control, inheritance, least privilege, number of roles, role administration, role-based access control, separation of duties

2 A fine-grained access control system for XML documents ☐
Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati
May 2002   **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 2
Full text available: ⬛ pdf(330.60 KB)   Additional Information: full citation, abstract, references, citings, index terms

Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce transactions, require the definition and enforcement of security controls, ensuring that information will be accessible only to authorized entities. Different approaches have been proposed that address the problem of protecting information in a Web ...

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3 Security & analysis I: Synthesising verified access control systems in XACML ☐
Nan Zhang, Mark Ryan, Dimitar P. Guelev
October 2004   **Proceedings of the 2004 ACM workshop on Formal methods in security engineering**

Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, references, index terms

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Keywords: XACML, access control model, access control policy language

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Keywords: XACML, access control model, access control policy language

2 A static type system for JVM access control   ☐
Tomoyuki Higuchi, Atsushi Ohori
August 2003 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN international conference on Functional programming**, Volume 38 Issue 9
Full text available: 📄 pdf(150.01 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents a static type system for JAVA Virtual Machine (JVM) code that enforces an access control mechanism similar to the one found, for example, in a JAVA implementation. In addition to verifying type consistency of a given JVM code, the type system statically verifies that the code accesses only those resources that are granted by the prescribed access policy. The type system is proved to be sound with respect to an operational semantics that enforces access control dynamically, si ...

Keywords: JVM, access control, stack inspection, type inference, type system

3 Access control: First experiences using XACML for access control in distributed systems   ☐
Markus Lorch, Seth Proctor, Rebekah Lepro, Dennis Kafura, Sumit Shah
October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(459.30 KB)   terms, review

Authorization systems today are increasingly complex. They span domains of administration, rely on many different authentication sources, and manage permissions that can be as complex as the system itself. Worse still, while there are many standards that define authentication mechanisms, the standards that address authorization are less well defined and tend to work only within homogeneous systems. This paper presents XACML, a standard access control language, as one component of a distributed a ...

Keywords: access control decision, access control enforcement, authorization, distributed system security, policy language, policy management

4 Certificate-based authorization policy in a PKI environment

Mary R. Thompson, Abdelilah Essiari, Srilekha Mudumbai
November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6
Issue 4
Full text available: pdf(233.63 KB)   Additional Information: full citation, abstract, references, citings, index terms

The major emphasis of public key infrastructure has been to provide a cryptographically secure means of authenticating identities. However, procedures for authorizing the holders of these identities to perform specific actions still need additional research and development. While there are a number of proposed standards for authorization structures and protocols such as KeyNote, SPKI, and SAML based on X.509 or other key-based identities, none have been widely adopted. As part of an effort to us ...

Keywords: Public key infrastructure, XML, digital certificates

5 A systematic approach to static access control

François Pottier, Christian Skalka, Scott Smith
March 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 27 Issue 2
Full text available: pdf(387.15 KB)   Additional Information: full citation, abstract, references, index terms

The Java Security Architecture includes a dynamic mechanism for enforcing access control checks, the so-called *stack inspection* process. While the architecture has several appealing features, access control checks are all implemented via dynamic method calls. This is a highly nondeclarative form of specification that is hard to read, and that leads to additional run-time overhead. This article develops type systems that can statically guarantee the success of these checks. Our systems all ...

Keywords: Type systems, access control, stack inspection

6 Securing context-aware applications using environment roles

Michael J. Covington, Wende Long, Srividhya Srinivasan, Anind K. Dev, Mustaque Ahamad, Gregory D. Abowd
May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies**
Full text available: pdf(131.07 KB)   Additional Information: full citation, abstract, references, citings, index terms

In the future, a largely invisible and ubiquitous computing infrastructure will assist people with a variety of activities in the home and at work. The applications that will be deployed in such systems will create and manipulate private information and will provide access to a variety of other resources. Securing such applications is challenging for a number of reasons. Unlike traditional systems where access control has been explored, access decisions may depend on the context in which re ...

Keywords: context aware computing, role-based access control

7 The role-based access control system of a European bank: a case study and discussion ☐

Andreas Schaad, Jonathan Moffett, Jeremy Jacob

May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies**

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L8	L7 and (receiv$3 near result near validity)	1	L8
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L3	"access rights"	9542	L3
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